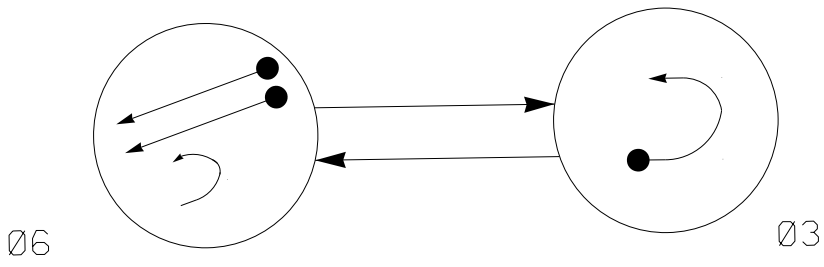
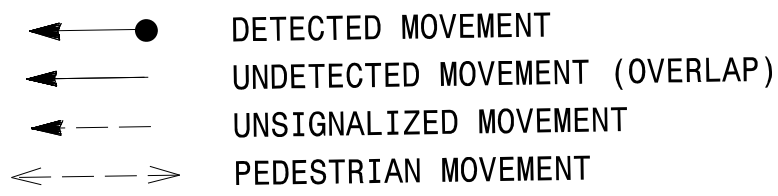


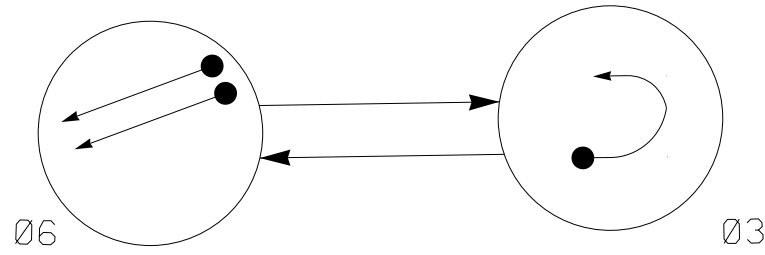
DEFAULT PHASING DIAGRAM



PHASING DIAGRAM DETECTION LEGEND



ALTERNATE PHASING DIAGRAM



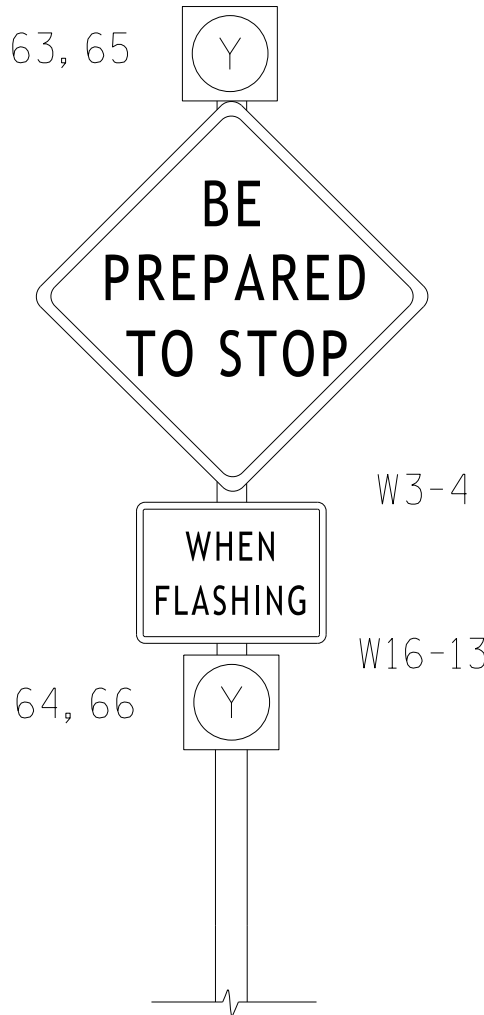
DEFAULT PHASING
TABLE OF OPERATION

SIGNAL FACE	PHASE		
	Ø 6	Ø 3	FLASH
31,32	Y	Y	R
61,62	G	R	R

ALTERNATE PHASING
TABLE OF OPERATION

SIGNAL FACE	PHASE		
	Ø 6	Ø 3	FLASH
31,32	R	R	Y
61,62	G	R	R

Figure 1



See notes 7 and 8

TABLE OF OPERATION

SIGNAL FACE	INTERVAL	
	1	2
63,65	ON	OFF
64,66	OFF	ON

MAXTIME DETECTOR INSTALLATION CHART

DETECTOR					PROGRAMMING						
LOOP	SIZE (FT)	DISTANCE FROM STOP LINE (FT)	TURNS	NEW LOOP	CALL PHASE	DELAY TIME	EXTEND TIME	EXTEND INITIAL	ADDED INITIAL	CALL DELAY DURING GREEN	NEW CARD
3A	*	0	*	X	3	15**	-	X	-	X	-

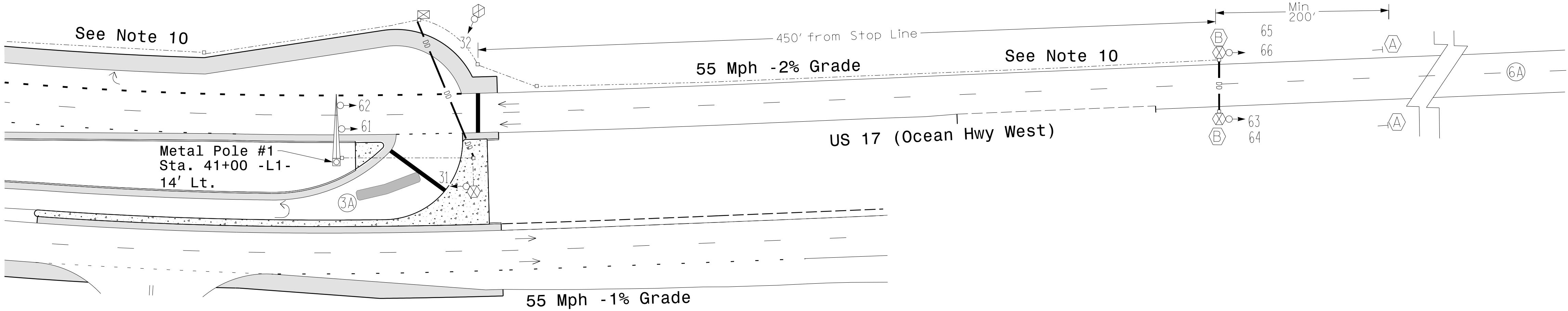
* Multizone microwave detection zone.

** Disable delay during alternate phasing operation

2 Phase
Fully Actuated
Signal System #: D03-14_Shallotte

NOTES

- Refer to "Roadway Standard Drawings NCDOT" dated January 2024 and "Standard Specifications for Roads and Structures" dated January 2024.
- Do not program signal for late night flashing operation unless otherwise directed by the Engineer.
- Set all detector units to presence mode.
- The Division Traffic Engineer will determine the hours of use for each phasing plan.
- Maximum times shown in timing chart are for free-run operation only. Coordinated signal system timing values shall supersede these values.
- This intersection uses multi-zone microwave detection. Install detectors according to the manufacturer's instructions to achieve the desired detection.
- Activate flashers 3 seconds prior to end of phase 6 green.
- Flash vertically-mounted beacons alternately.
- Route conduit back to signal cabinet 03-1249 for electrical service drop.
- Install new conduit as close as possible to edge of pavement.
- Refer to the Pavement Marking Plans for pavement marking details.



MAXTIME TIMING CHART

FEATURE	PHASE	
	3	6
Walk *	-	-
Ped Clear *	-	-
Min Green *	7	14
Passage *	2.0	2.0
Max 1 *	25	90
Yellow Change	3.0	5.4
Red Clear	4.6	1.0
Added Initial *	-	-
Maximum Initial *	-	-
Time Before Reduction *	-	-
Time To Reduce *	-	-
Minimum Gap	-	-
Advance Walk	-	-
Pre-Clearance	-	3.0
Non Lock Detector	X	-
Vehicle Recall	-	MIN RECALL
Dual Entry	-	-

* These values may be field adjusted. Do not adjust Min Green and Extension times for phases 2 and 6 lower than what is shown. Min Green for all other phases should not be lower than 4 seconds.

ADVANCED MICROWAVE EXTEND RANGE DETECTION

FUNCTION	Sensor 1 (6A)		
Channel	1		
Phase	6		
Direction of Travel	SB		
Type	PRIORITY		
Level	1	2	QUEUE
Discovery Zone (ft)	>=750	<750	N/A
Range (ft)	100-900	100-600	100-150
Enable Speed	Y	Y	Y
Speed Range (mph)	35-100	35-100	1-35
Enable Estimated Time of Arrival	Y	Y	N
Estimated Time of Arrival (sec)	2.5-10.0	2.5-6.5	-

LEGEND

PROPOSED	EXISTING

New Installation

DOCUMENT NOT CONSIDERED FINAL
UNLESS ALL SIGNATURES COMPLETED

 750 N. Greenfield Pkwy, Garner, NC 27529 Prepared for: TRANSPORTATION MOBILITY AND SAFETY DIVISION NORTH CAROLINA DEPARTMENT OF TRANSPORTATION Signal Design Section	US 17 SB (Ocean Highway W) at U-turn North of US 17 Bus/Frontage RD NW		
	Division 3 Brunswick County Shallotte	Division 3 Brunswick County Shallotte	
PLAN DATE: March 2025	REVIEWED BY: G. G. Murr, Jr.	REVIEWED BY: Nadia Degbotse	REVIEWED BY: G. G. Murr, Jr.
REVISIONS	INIT.	DATE	Signed by: G. G. Murr, Jr. 3/31/2025
AABF5076CAB34CF			SIG. INVENTORY NO. 03-1251